

**Notice of Allowability****Application No.**

10/829,473

**Examiner**

BRANDON J. MILLER

**Applicant(s)**

LAPPETELAINEN ET AL.

**Art Unit**

2617

**- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/18/2009 and 10/26/2009.
2. ☒ The allowed claim(s) is/are 1-6,11-23 and 26-32.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.
- Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_.

/Brandon J Miller/  
Examiner, Art Unit 2617

/George Eng/  
Supervisory Patent Examiner, Art Unit 2617

**DETAILED ACTION**

***Allowable Subject Matter***

The following is an examiner's statement of reasons for allowance:

Claim 1 recites a method with steps as defined in the specification (pages 5-24) including connecting a subscriber terminal of a wireless telecommunications system to an infrastructure of the wireless telecommunications system over a wireless interface, the subscriber terminal holding a subscriber identity in the wireless telecommunications system; connecting the subscriber terminal to at least one sub-terminal over a proximity wireless interface, the at least one sub-terminal using the subscriber identity of the subscriber terminal; requesting a radio link from the subscriber terminal, the radio link being directed from the infrastructure to the at least one sub-terminal; generating signaling parameters for controlling the radio link; and communicating at least one of the signaling parameters between the at least one sub-terminal and the infrastructure, and the subscriber terminal and the at least one sub-terminal being in connection with the infrastructure simultaneously.

The prior art teaches a method comprising connecting a subscriber terminal of a wireless telecommunications system to an infrastructure of the wireless telecommunications system over a wireless interface, the subscriber terminal holding a subscriber identity in the wireless telecommunications system; and connecting the subscriber terminal to at least one sub-terminal over a proximity wireless interface.

However, applicant's independent claim 1 comprises a method with a particular combination of steps, as recited above, that allows for, the at least one sub-terminal using the subscriber identity of the subscriber terminal; requesting a radio link from the subscriber

terminal, the radio link being directed from the infrastructure to the at least one sub-terminal; generating signaling parameters for controlling the radio link; and communicating at least one of the signaling parameters between the at least one sub-terminal and the infrastructure, and the subscriber terminal and the at least one sub-terminal being in connection with the infrastructure simultaneously.

This is neither taught nor suggested by the prior art.

Claims 2-5 and 22-23 are allowable based on their dependence on independent claim 1.

Claim 6 recites a system with a structure as defined in the specification (pages 5-24) including a subscriber terminal and at least one sub-terminal, wherein the subscriber terminal comprises a connecting unit configured to connect the subscriber terminal to a infrastructure of a wireless telecommunications system and a subscriber identity unit configured to hold a subscriber identity of the subscriber terminal in the wireless telecommunications system, wherein the at least one sub-terminal uses the subscriber identity of the subscriber terminal and comprises a receiving unit configured to provide a radio link directed from the infrastructure to the at least one sub-terminal, the radio link being controlled on the basis of signaling parameters, wherein the subscriber terminal comprises a requesting unit operationally connected to the connecting unit, configured to request the radio link, wherein the system comprises a signaling unit operationally connected to the connecting unit, configured to communicate at least one of the signaling parameters between the subscriber terminal and the infrastructure, wherein the system comprises a proximity signaling unit operationally connected to the signaling unit, configured to communicate the at least one of the signaling parameters between the subscriber terminal and the

at least one sub-terminal over a proximity wireless interface, and wherein the subscriber terminal and the at least one sub-terminal are connected to the infrastructure simultaneously.

The prior art teaches a system comprising and a subscriber identity unit configured to hold a subscriber identity of a subscriber terminal in the wireless telecommunications system; and wherein the system comprises a proximity signaling unit operationally connected to a signaling unit, configured to communicate at least one signaling parameter between the subscriber terminal and at least one sub-terminal over a proximity wireless interface.

However, applicant's independent claim 6 comprises a system with a particular structure, as recited above, which allows for a subscriber terminal and at least one sub-terminal, wherein the subscriber terminal comprises a connecting unit configured to connect the subscriber terminal to a infrastructure of a wireless telecommunications system, wherein the at least one sub-terminal uses the subscriber identity of the subscriber terminal and comprises a receiving unit configured to provide a radio link directed from the infrastructure to the at least one sub-terminal, the radio link being controlled on the basis of signaling parameters, wherein the subscriber terminal comprises a requesting unit operationally connected to the connecting unit, configured to request the radio link, wherein the system comprises a signaling unit operationally connected to the connecting unit, configured to communicate at least one of the signaling parameters between the subscriber terminal and the infrastructure, and wherein the subscriber terminal and the at least one sub-terminal are connected to the infrastructure simultaneously

This is neither taught nor suggested by the prior art.

Claim 11 recites an apparatus with a structure as defined in the specification (pages 5-24) including a connecting unit configured to connect the apparatus to an infrastructure of a wireless telecommunications system; a subscriber identity unit configured to hold a subscriber identity of the apparatus in the wireless telecommunications system; a requesting unit operationally connected to the connecting unit, configured to request a radio link directed from the infrastructure to at least one sub-terminal, the at least one sub-terminal using the subscriber identity of the apparatus, the radio link being controlled on the basis of signaling parameters; a proximity signaling unit configured to communicate at least one of the signaling parameters with the at least one sub-terminal over a proximity wireless interface; a signaling unit operationally connected to the connecting unit and the proximity signaling unit, configured to communicate the at least one of the signaling parameters between the apparatus and the infrastructure, wherein the apparatus is configured to be in connection with the infrastructure simultaneously with the at least one sub-terminal.

The prior art teaches an apparatus comprising a connecting unit configured to connect the apparatus to an infrastructure of a wireless telecommunications system; a subscriber identity unit configured to hold a subscriber identity of the apparatus in the wireless telecommunications system and a proximity signaling unit configured to communicate at least one signaling parameter with the at least one sub-terminal over a proximity wireless interface.

However, applicant's independent claim 11 comprises an apparatus with a particular structure, as recited above, which allows for a requesting unit operationally connected to the connecting unit, configured to request a radio link directed from the infrastructure to at least one sub-terminal, the at least one sub-terminal using the subscriber identity of the apparatus, the

radio link being controlled on the basis of signaling parameters; a signaling unit operationally connected to the connecting unit and the proximity signaling unit, configured to communicate the at least one of the signaling parameters between the apparatus and the infrastructure, wherein the apparatus is configured to be in connection with the infrastructure simultaneously with the at least one sub-terminal.

This is neither taught nor suggested by the prior art.

Claims 12 and 26-27 are allowable based on their dependence on independent claim 11.

Claim 13 recites an apparatus with a structure as defined in the specification (pages 5-24) including a receiving unit configured to provide a radio link directed from an infrastructure of a wireless telecommunication system, to the apparatus, the apparatus being operationally connected to the infrastructure and holding a subscriber identity in the wireless telecommunications system, the apparatus using the subscriber identity of a subscriber terminal and, the radio link being controlled on the basis of signaling parameters communicated between the subscriber terminal and the infrastructure, the radio link being requested by the subscriber terminal; a proximity signaling unit configured to communicate at least one of the signaling parameters between the subscriber terminal and the apparatus over a proximity wireless interface, and wherein the apparatus is configured to be in connection with the infrastructure simultaneously with the subscriber terminal.

The prior art teaches an apparatus comprising the apparatus being operationally connected to the infrastructure and holding a subscriber identity in the wireless telecommunications system, the apparatus using the subscriber identity of a subscriber terminal

and a proximity signaling unit configured to communicate at least one signaling parameter between the subscriber terminal and the apparatus over a proximity wireless interface.

However, applicant's independent claim 13 comprises an apparatus with a particular structure, as recited above, which allows for a receiving unit configured to provide a radio link directed from an infrastructure of a wireless telecommunication system, to the apparatus and, the radio link being controlled on the basis of signaling parameters communicated between the subscriber terminal and the infrastructure, the radio link being requested by the subscriber terminal; and wherein the apparatus is configured to be in connection with the infrastructure simultaneously with the subscriber terminal.

This is neither taught nor suggested by the prior art.

Claims 14-17 and 28 are allowable based on their dependence on independent claim 13.

Claim 18 recites an apparatus with a structure as defined in the specification (pages 5-24) including an access control unit configured to control access of at least one sub-terminal to an infrastructure of a wireless telecommunications system on the basis of an access request from a subscriber terminal of the wireless telecommunications system, the subscriber terminal being operationally connected to the infrastructure and the access of the at least one sub-terminal being simultaneous with the connection of the subscriber terminal and the subscriber terminal holding the subscriber identity in the wireless telecommunications system, the at least one sub-terminal using the subscriber identity of the subscriber terminal; a controlling unit operationally connected to the access control unit, configured to control a radio link directed from the infrastructure to the at least one sub-terminal, the radio link being controlled on the basis of

signaling parameters; and a signaling unit configured to communicate at least one of the signaling parameters between the infrastructure and the subscriber terminal, the at least one of the signaling parameters being communicated between the subscriber terminal and the at least one sub-terminal over a proximity wireless interface.

The prior art teaches a subscriber terminal being operationally connected to an infrastructure, the subscriber terminal holding a subscriber identity in the wireless telecommunications system, and communicating at least one signaling parameter between the subscriber terminal and at least one sub-terminal over a proximity wireless interface.

However, applicant's independent claim 18 comprises an apparatus with a particular structure, as recited above, which allows for an access control unit configured to control access of at least one sub-terminal to an infrastructure of a wireless telecommunications system on the basis of an access request from a subscriber terminal of the wireless telecommunications system, the access of the at least one sub-terminal being simultaneous with the connection of the subscriber terminal, the at least one sub-terminal using the subscriber identity of the subscriber terminal; a controlling unit operationally connected to the access control unit, configured to control a radio link directed from the infrastructure to the at least one sub-terminal, the radio link being controlled on the basis of signaling parameters; and a signaling unit configured to communicate at least one of the signaling parameters between the infrastructure and the subscriber terminal.

This is neither taught nor suggested by the prior art.

Claims 19-21 and 29 are allowable based on their dependence on independent claim 18.



Claim 30 recites an apparatus with a structure as defined in the specification (pages 5-24) including connecting means for connecting the apparatus to an infrastructure of a wireless telecommunications system; subscriber identity means for holding a subscriber identity of the apparatus in the wireless telecommunications system; requesting means for requesting a radio link directed from the infrastructure to at least one sub-terminal, the at least one sub-terminal using the subscriber identity of the apparatus, the radio link being controlled on the basis of signaling parameters; proximity signaling means for communicating at least one of the signaling parameters with the at least one sub-terminal over a proximity wireless interface; signaling means for communicating the at least one of the signaling parameters between the apparatus and the infrastructure, wherein the apparatus is configured to be in connection with the infrastructure simultaneously with the at least one sub-terminal.

The prior art teaches an apparatus comprising connecting means for connecting the apparatus to an infrastructure of a wireless telecommunications system; subscriber identity means for holding a subscriber identity of the apparatus in the wireless telecommunications system, at least one sub-terminal using the subscriber identity of the apparatus, and proximity signaling means for communicating at least one signaling parameter with the at least one sub-terminal over a proximity wireless interface.

However, applicant's independent claim 30 comprises an apparatus with a particular structure, as recited above, which allows for requesting means for requesting a radio link directed from the infrastructure to at least one sub-terminal, the radio link being controlled on the basis of signaling parameters; signaling means for communicating the at least one of the signaling

parameters between the apparatus and the infrastructure, wherein the apparatus is configured to be in connection with the infrastructure simultaneously with the at least one sub-terminal.

This is neither taught nor suggested by the prior art.

Claim 31 recites an apparatus with a structure as defined in the specification (pages 5-24) including receiving means for providing a radio link directed from an infrastructure of a wireless telecommunication system, to the apparatus, the apparatus being operationally connected to the infrastructure and holding a subscriber identity in the wireless telecommunications system, the apparatus using the subscriber identity of a subscriber terminal and, the radio link being controlled on the basis of signaling parameters communicated between the subscriber terminal and the infrastructure, the radio link being requested by the subscriber terminal; and proximity signaling means for communicating at least one of the signaling parameters between the subscriber terminal and the apparatus over a proximity wireless interface, wherein the apparatus is configured to be in connection with the infrastructure simultaneously with the subscriber terminal.

The prior art teaches an apparatus comprising the apparatus being operationally connected to the infrastructure and holding a subscriber identity in the wireless telecommunications system, the apparatus using the subscriber identity of a subscriber terminal and, proximity signaling means for communicating at least one signaling parameter between the subscriber terminal and the apparatus over a proximity wireless interface.

However, applicant's independent claim 31 comprises an apparatus with a particular structure, as recited above, which allows for receiving means for providing a radio link directed

from an infrastructure of a wireless telecommunication system, to the apparatus, the radio link being controlled on the basis of signaling parameters communicated between the subscriber terminal and the infrastructure, the radio link being requested by the subscriber terminal; wherein the apparatus is configured to be in connection with the infrastructure simultaneously with the subscriber terminal.

This is neither taught nor suggested by the prior art.

Claim 32 recites an apparatus with a structure as defined in the specification (pages 5-24) including an access control means for controlling access of at least one sub-terminal to an infrastructure of a wireless telecommunications system on the basis of an access request from a subscriber terminal of the wireless telecommunications system, the subscriber terminal being operationally connected to the infrastructure and the access of the at least one sub-terminal being simultaneous with the connection of the subscriber terminal and the subscriber terminal holding the subscriber identity in the wireless telecommunications system, the at least one sub-terminal using the subscriber identity of the subscriber terminal; controlling means for controlling a radio link directed from the infrastructure to the at least one sub-terminal, the radio link being controlled on the basis of signaling parameters; and signaling means for communicating at least one of the signaling parameters between the infrastructure and the subscriber terminal, the at least one of the signaling parameters being communicated between the subscriber terminal and the at least one sub-terminal over a proximity wireless interface.

The prior art teaches a subscriber terminal being operationally connected to an infrastructure, the subscriber terminal holding a subscriber identity in the wireless

telecommunications system, and communicating at least one signaling parameter between the subscriber terminal and at least one sub-terminal over a proximity wireless interface.

However, applicant's independent claim 32 comprises an apparatus with a particular structure, as recited above, which allows access control means for controlling access of at least one sub-terminal to an infrastructure of a wireless telecommunications system on the basis of an access request from a subscriber terminal of the wireless telecommunications system, the access of the at least one sub-terminal being simultaneous with the connection of the subscriber terminal, the at least one sub-terminal using the subscriber identity of the subscriber terminal; controlling means for controlling a radio link directed from the infrastructure to the at least one sub-terminal, the radio link being controlled on the basis of signaling parameters; and a signaling unit configured to communicate at least one of the signaling parameters between the infrastructure and the subscriber terminal.

This is neither taught nor suggested by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

The prior art made of record is considered pertinent to applicant's disclosure.

Larsson et al. Patent No.: US 6,697,638 B1 discloses an intelligent portable phone with dual mode operation for automobile use.

Vimpari et al. Patent Number: 5,715,522 discloses a booster arrangement for a portable telephone.

Scholz et al. UK Patent Application GB 2 365 699 A discloses a mobile telephone which provides identification and authentication data.

Koponen et al. Pub. No.: US 2002/0085511 A1 discloses an arrangement for communicating information.

Karabinis et al. Patent Number: 6,134,437 discloses a dual-mode satellite/cellular phone architecture with physically separable mode.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRANDON J. MILLER whose telephone number is (571)272-7869. The examiner can normally be reached on Mon.-Fri. 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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